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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/595,073	01/30/2006	James T. Wolter	58719US010	2163
32692 3M INNOVAT	7590 03/17/201 CIVE PROPERTIES CO	EXAM	EXAMINER	
PO BOX 33427 ST. PAUL, MN 55133-3427			CRAIGO, WILLIAM A	
			ART UNIT	PAPER NUMBER
			1615	
			NOTIFICATION DATE	DELIVERY MODE
			03/17/2010	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

LegalUSDocketing@mmm.com LegalDocketing@mmm.com

Office Action Summary

Application No.	Applicant(s)	
10/595,073	WOLTER ET AL.	
Examiner	Art Unit	
WILLIAM CRAIGO	1615	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address -- for Reply

U.S. Patent and Trademark Office PTOL-326 (Rev. 08-06)

1) Notice of References Cited (PTO-892)

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

Information Disclosure Statement(s) (FTO/S3/05)
 Paper No(s)/Mail Date _______

Interview Summary (PTO-413)
 Paper No(s)/Mail Date. _____.

6) Other: __

5) Notice of Informal Patent Application

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DETAILED ACTION

Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1-32 and 60, drawn to a delivery device.

Group II, claim(s) 33, drawn to a delivery device.

Group III, claim(s) 34, drawn to a delivery device.

Group IV, claim(s) 35-51, drawn to a method of delivery.

Group V, claim(s) 52, drawn to a method of delivery.

Group VI, claim(s) 53, drawn to a method of delivery.

Group VII, claim(s) 54-59, drawn to a method of delivery.

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As set forth in Rule 13.1 of the Patent Cooperation Treaty (PCT), "the international application shall relate to one invention only or to a group of inventions so linked as to form a single general inventive concept." Moreover, as stated in PCT Rule 13.2, "where a group of inventions is claimed in one and the same international application, the requirement of unity of invention referred to in Rule 13.1 shall be fulfilled only when there is a technical relationship among those inventions involving one or more of the same or corresponding special technical features." Furthermore, Rule 13.2 defines "special technical features" as "those technical features that define a contribution which each of the claimed inventions, considered as a whole, makes over the prior art."

The inventions listed as Groups I - VII do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

The special technical feature of Groups I-VII is a microneedle delivery device with a penetration of no more than 500 microns and a TLR 6, 7, 8 and/or 9 agonist. The a microneedle delivery device with a penetration of no more than 500 microns and a TLR 6, 7, 8 and/or 9 agonist of claim 1 does not present a contribution over the prior art. As disclosed in Mikszta, Nature Medicine, vol. 8, no. 4, April 2002, which describes a microneedle delivery device for the delivery of hepatitis B vaccine, with a projection (needle length) of 50-200 microns; in view of Krieg, TRENDS in Immunology, vol.23, no.2, Feb, 2002 describing the therapeutic benefits of trl9 agonists as adjuvants in vaccines for tumors and hepatitis B. The a microneedle delivery device with a penetration of no more than 500 microns and a TLR 9 agonist of instant claim 1 does

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not involve an inventive step. As such, Group I does not share a special technical feature which represents a contribution over the prior art with the instant claims of Groups II-VII. Therefore, the claims are not so linked within the meaning of PCT Rule 13.2 so as to form a single inventive concept, and unity between Groups I-VII is broken.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

The examiner has required restriction between product and process claims. Where applicant elects claims directed to the product, and the product claims are subsequently found allowable, withdrawn process claims that depend from or otherwise require all the limitations of the allowable product claim will be considered for rejoinder.

All claims directed to a nonelected process invention must require all the limitations of an allowable product claim for that process invention to be rejoined.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103 and 112. Until all claims to the elected product are found allowable, an otherwise proper restriction requirement between product

claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowable product claim will not be rejoined. See MPEP § 821.04(b). Additionally, in order to retain the right to rejoinder in accordance with the above policy, applicant is advised that the process claims should be amended during prosecution to require the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder. Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

Election of Species

This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

The species are as follows:

If any one of Groups I-III is elected, EACH of the following species elections are required:

- a) The name AND structure of the at least one IRM compound that is a TLR6, 7, 8, and/or 9 agonist;
 - b) Which TLR 6, 7, 8, and/or 9 is targeted:
 - c) Presence or absence of a pump and/or a microprocessor

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d) Hollow, porous or solid microneedle

e) Presence or absence of an additional drug

f) If an additional drug is elected, the name AND structure of the additional

drug.

If Group II is elected, EACH of the following species elections are required:

g) A single condition to be treated

h) The name AND structure of the IRM compound

Applicant is required, in reply to this action, to elect a single species to which the claims shall be restricted if no generic claim is finally held to be allowable. Upon Applicant's election of species, the result must provide a single chemical species and/or a single condition or disease to be treated or improved. The reply must also identify the claims readable on the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims

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are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

The species listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, the species lack the same or corresponding special technical features for the following reasons:

- a) each chemical species is a distinct chemical which lacks a special technical feature as disclosed in Mikszta, Nature Medicine, vol. 8, no. 4, April 2002, which describes a microneedle delivery device for the delivery of hepatitis B vaccine, with a projection (needle length) of 50-200 microns; in view of Krieg, TRENDS in Immunology, vol.23, no.2, Feb, 2002 describing the therapeutic benefits of trl9 agonists as adjuvants in vaccines for tumors and hepatitis B the a microneedle delivery device with a penetration of no more than 500 microns and a TLR 6, 7, 8 and/or 9 agonist of instant claim 1 does not involve an inventive step.
- b) each disease or condition to be treated or improved has distinct pathologies and thus lack a special technical feature.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

The election of the species may be made with or without traverse. To preserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the election of species requirement, the election shall be treated as an election without traverse. Traversal must be presented at the time of election in order to be considered timely. Failure to timely traverse the requirement will result in the loss of right to petition under 37 CFR 1.144. If claims are added after the election, applicant must indicate which of these claims are readable on the elected species.

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the species unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other species.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which depend from or otherwise require all the limitations of an allowable generic claim as provided by 37 CFR 1.141.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to WILLIAM CRAIGO whose telephone number is Application/Control Number: 10/595,073 Page 9

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(571)270-1347. The examiner can normally be reached on Monday - Friday, 7:30 -

5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert A. Wax can be reached on (571) 272-0623. The fax phone number

Information regarding the status of an application may be obtained from the

for the organization where this application or proceeding is assigned is 571-273-8300.

Patent Application Information Retrieval (PAIR) system. Status information for

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system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Leon B Lankford/ Primary Examiner, Art Unit 1651